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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23685

7590

11/01/2010

KRIEGSMAN & KRIEGSMAN 30 TURNPIKE ROAD, SUITE 9 SOUTHBOROUGH, MA 01772 EXAMINER

KOKKINOS, NICHOLAS C

ART UNIT PAPER NUMBER

1787 DATE MAILED: 11/01/2010

I	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/537.193	09/18/2006	Kuolih Tsai	81982PCT/US	1230

TITLE OF INVENTION: HEAT TRANSFER LABEL FOR FABRIC WITH THERMOCHROMIC INK AND ADHESIVE SURFACE ROUGHNESS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/01/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificate	correspondence including below or directed oth tions.	g the Patent, advance or erwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wil pondence address; a	l be mail ind/or (b)	ed to the current of indicating a separ	correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.			
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	& KRIEGSMAN ROAD, SUITE 9 JGH, MA 01772		I hei State addr trans	reby certify that this es Postal Service wit essed to the Mail S emitted to the USPTO	Fee(s) Tr h sufficie Stop ISSU D (571) 27	Mailing or Transn cansmittal is being out postage for first UE FEE address a 73-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	I.	ATTORNE	Y DOCKET NO.	CONFIRMATION NO.
10/537,193	09/18/2006		Kuolih Tsai	<u> </u>	8198	32PCT/US	1230
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	02/01/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
KOKKINOS, N	NICHOLAS C	1787	428-032770				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ND RESIDENCE DATA	Indication form ed. Use of a Customer  TO BE PRINTED ON The field below, no assignee	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorlisted, no name will be THE PATENT (print or typ data will appear on the patent at substitute for filing an a	rely, e firm (having as a n gent) and the names rneys or agents. If no printed. e) ttent. If an assignee	nember a of up to o name is	3	cument has been filed for
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	To small entity discount p	ermitted)	☐ A check is enclosed.☐ Payment by credit care	1 Form PTO-2038 i	s attached	1	
Advance Order - # of Copies			☐ The Director is hereby	or is hereby authorized to charge the required fee(s), any deficiency, or credit any nt, to Deposit Account Number (enclose an extra copy of this form).			
	<b>tus</b> (from status indicated s SMALL ENTITY statu	/	☐ b. Applicant is no long	ger claiming SMALL	. ENTITY	status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requ records of the United Sta	nired) will not be accepted tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a regist	ered attor	ney or agent; or the	assignee or other party in
Authorized Signature				Date			
Typed or printed name				-			
This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450. Alexandria, V	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any com r, U.S. Patent and To D THIS ADDRESS.	public winutes to comments on rademark SEND TO	thich is to file (and complete, including the amount of tim Office, U.S. Depa D: Commissioner fo	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,193	09/18/2006	Kuolih Tsai	81982PCT/US 1230	
23685 7.	7590 11/01/2010		EXAM	IINER
KRIEGSMAN &	k KRIEGSMAN	KOKKINOS,	NICHOLAS C	
30 TURNPIKE RO	*	ART UNIT	PAPER NUMBER	
SOUTHBOROUG	SOUTHBOROUGH, MA 01772			
		DATE MAILED: 11/01/2010		

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 485 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 485 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/537,193 <b>Examiner</b>	TSAI ET AL.  Art Unit	
rouse of Amorrasmy	Examiner	Art Offic	
	NICHOLAS KOKKINOS	1787	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is sub	is application. If not included cation will be mailed in due cour	rse. THIS
1. X This communication is responsive to the RCE/IDS filed 23	September 2010.		
2. X The allowed claim(s) is/are 105-109,111,112,117 and 164-	<u>-172</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		f).	
2. Certified copies of the priority documents have	e been received in Application N	No	
3.  Copies of the certified copies of the priority do	cuments have been received ir	this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the require	ments
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (	PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	,		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			k) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)	E   Notice of Infor	mal Datant Application	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	6. ☐ Interview Sum	mal Patent Application	
		il Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>20100923</u></li> </ol>	/. □ Examiners An	ienament/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		atement of Reasons for Allowan	ce
<u>-</u>	9.		
	/Callie E. Shosho		
	Supervisory Pater	it Examiner, Art Unit 1787	

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#### Statement of Reasons for Allowance

- 1. Prior to setting forth the statement of reasons for allowance, it is noted that a request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 23 September 2010 has been entered.
- 2. It is noted that instant claims 105-109, 111, 112, 117, and 164-172 were previously allowed as set forth in the Notice of Allowance and Examiner's Amendment mailed 22 June 2010.
- 3. Present claims 105-109, 111, 112, 117, and 164-172 remain allowable over the prior art of record for the reasons discussed in the Notice of Allowance mailed 22 June 2010. Those reasons, as well as additional considerations, have been re-stated below:
- 4. As discussed in the reasons for allowance mailed on 22 June 2010, amended claim 164 overcomes the prior art references of USPN 5,296,444 to Saiki et al., USPN 5,514,516 Vanmaele, USPN to 5,766,397 Jones, USPN 5,573,834 to Stahl, USPN 6,261,734 to Platzer, and USPN 5,456,969 to Suzuki et al. The prior art when taken as

a whole fails to disclose or suggest each limitation of claim 164, and particularly the combination of the adhesive thickness and surface roughness with the exposure of the top surface of the ink design layer.

- 5. Applicant's submission filed 23 September 2010 in the form of USPN 5,254,302 to Yamanaka has also been considered. While relevant for the teachings of adhesive layer thickness and surface roughness (see column 5, lines 24-56), Yamanaka does not teach or suggest the remainder of claim 164 because the ink design layer is not printed directly onto the heat-activatable adhesive layer, nor is the heat-activatable adhesive layer positioned between the ink design layer and support portion. The examiner also notes, consistent with page 33 of applicant's remarks filed 19 February 2010, that the Saiki reference explicitly teaches away from the modification of the adhesive layer thickness as suggested by Yamanaka.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICHOLAS KOKKINOS whose telephone number is (571) 270-7384. The examiner can normally be reached on Monday-Thursday 9am-5pm.

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8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho can be reached on (571) 272-1123. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

9. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/NK/

22 October 2010

/Callie E. Shosho/

Supervisory Patent Examiner, Art Unit 1787